智科通信

CTN (Cloud Telephony Node)

User Manual

V1.0

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Chapter 1 BRIEF INTRODUCTION

Explanation
CTMC: Cloud Telephony Management Center
CTN: Cloud Telephony Node
CooVox: IP PBX Series developed by ZYCOO, including U20, U50, U60 and U100.

CTN is Cloud Telephony Note expanded based on ZYCOO CooVox IP PBX Series, applicable to CTMC management and operation remotely and centrally. For now, the upgrade is available for U20, U50 & U100. U60 will be subsequently supported in next version.

Chapter 2 QUICK START GUIDE

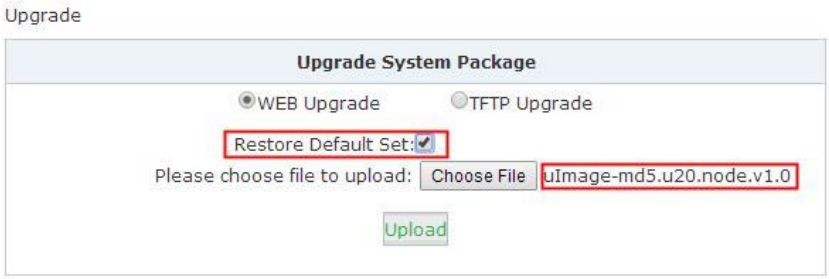
Step 1: Firmware Preparation & Upgrading

Download the CTN firmware on ZYCOO website:
http://www.zycoo.com/html/Download.html

Unpack the zip file downloaded:

Model	Firmware File
CooVoxU20	E.g.:uImage-md5.u20.node.v1.0
CooVoxU50	E.g.:uImage-md5.u50.node.v1.0
CooVoxU100	E.g.:uImage-md5.u100.node.v1.0

Use respective firmware to upgrade U20, U50 or U100 to the node mode.



Note: After the upgrading, clear browser cache and reboot, IP will be set as 192.168.1.100.

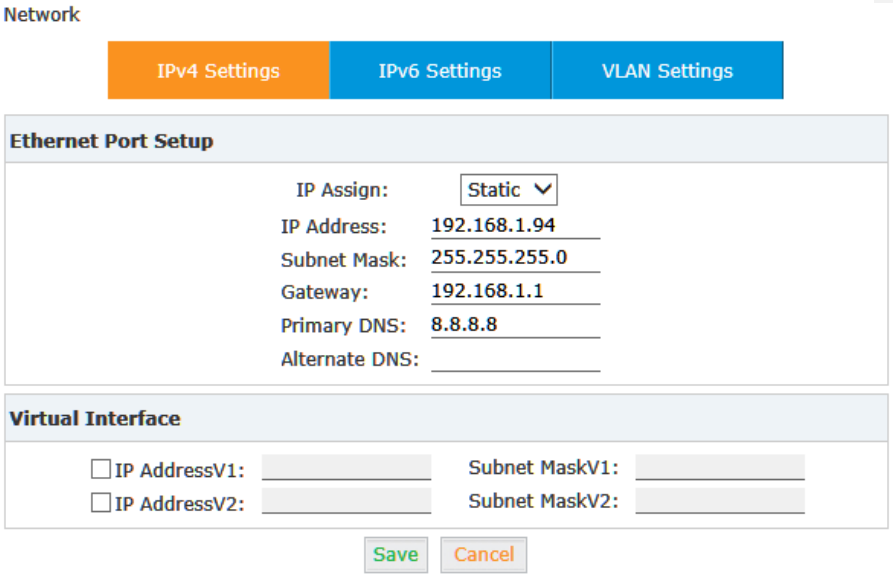
Step 2: Login

Default Username & Password: *admin/admin*

Note: once the mode is chosen, the option won't appear again, unless it's set to factory default.

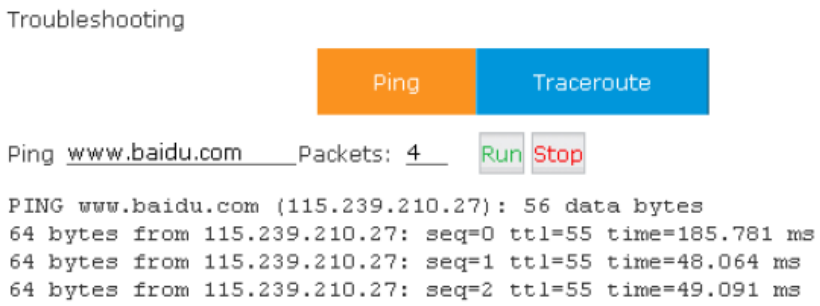
Step 3: Network Settings

Please configure IPv4 Settings for quick start here;
Detail network settings can be found in Chapter 3.2.



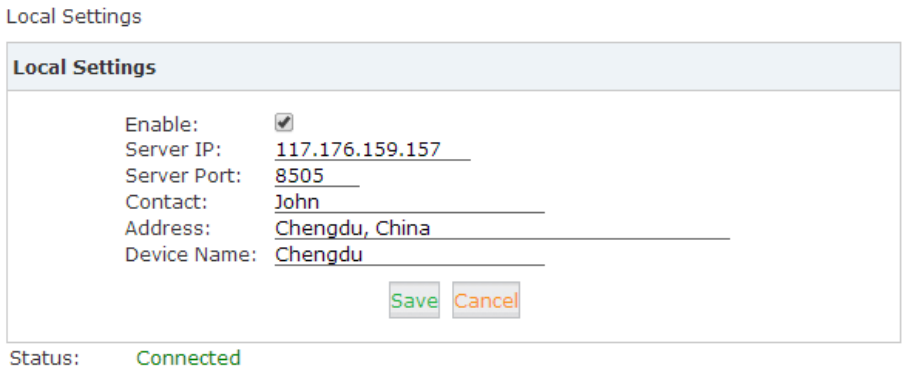
To make sure it is connected to the public network, please click Troubleshooting

to test as below:


Troubleshooting
Ping
Traceroute
Ping www.baidu.com Packets: 4 Run Stop
PING www.baidu.com (115.239.210.27): 56 data bytes
64 bytes from 115.239.210.27: seq=0 ttl=55 time=185.781 ms
64 bytes from 115.239.210.27: seq=1 ttl=55 time=48.064 ms
64 bytes from 115.239.210.27: seq=2 ttl=55 time=49.091 ms

Step 4: Local Settings

Make following Local Settings, make sure the connection status is "Connected", then the CTN connects with CTMC successfully.



Reference:

Item	Explanation
Enable	Enable CTN
Server IP	CTMC IP
Server	Default 8505, CTMC access port
Contact	Contact of device
Address	Address of device
Device Name	Device name

Note: After connecting with CTMC, the CTN's extensions will be created from CTMC and other operations to CTN will be handled from CTMC as well.
Detail information will be introduced in CTMC User Manual.

Chapter 3 DETAIL CONFIGURATION

3.1 Login

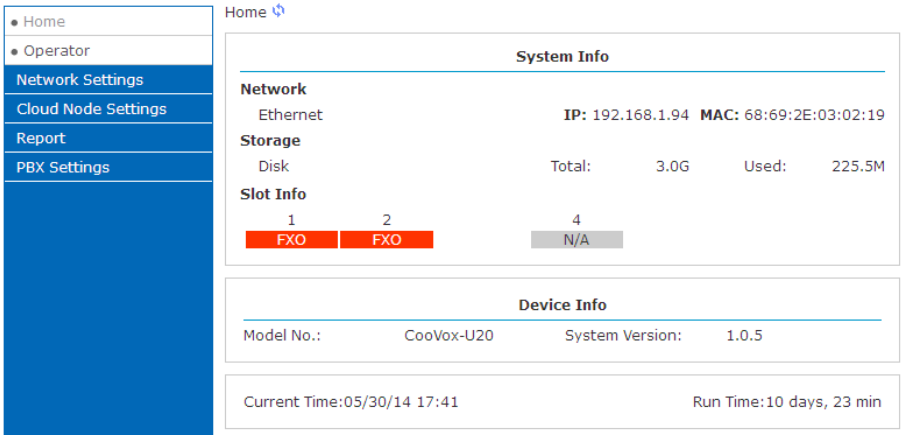
After connected the system to local network, run a browser on a local PC. Enter the IP (default IP of WAN is http://192.168.1.100:9999:

Enter Username & Password (default *admin/admin*) , then【Login】

Note

1) Please use IE (V7.0 or higher), or Firefox browser
2) Always make sure the PC is in a same IP segment as the system
3) After one minute's idleness, the system will time-out

When login succeeded, you will see the following page:



- Network: IP & MAC of WAN
- Storage: Disk total space & used space
- Slot Info: Module plugged information
- Device Info: Device model & system version

Resident Buttons:

- Logout: logout the GUI
- Activate Changes: once configure made and saved, click this button to activate

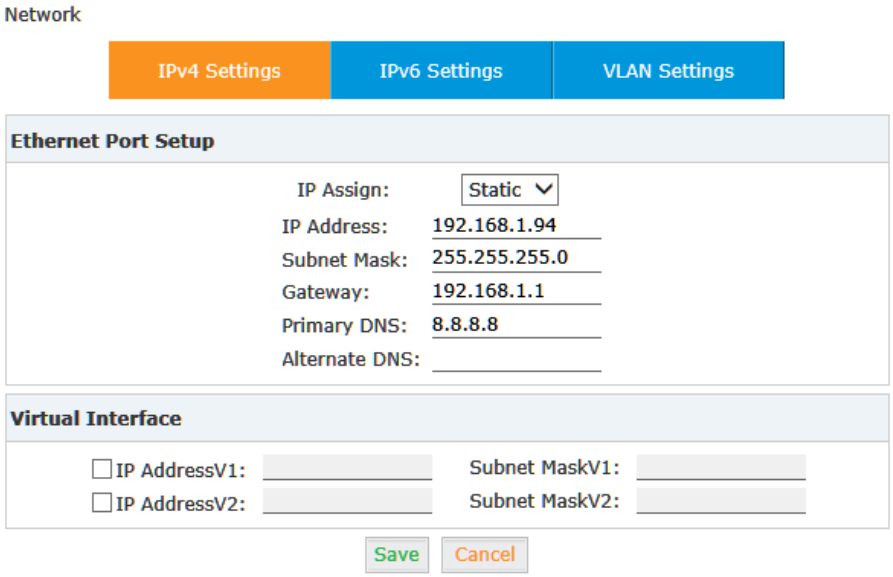
System Menu:

- Home: Device information
- Operator: display extensions & trunks
- Network Settings: configure network settings
- Cloud Node Settings: configure basic CTN & CTMC settings
- Report: record & logs
- PBX Settings: user, time and modules

3.2 Network Settings

3.2.1 Network

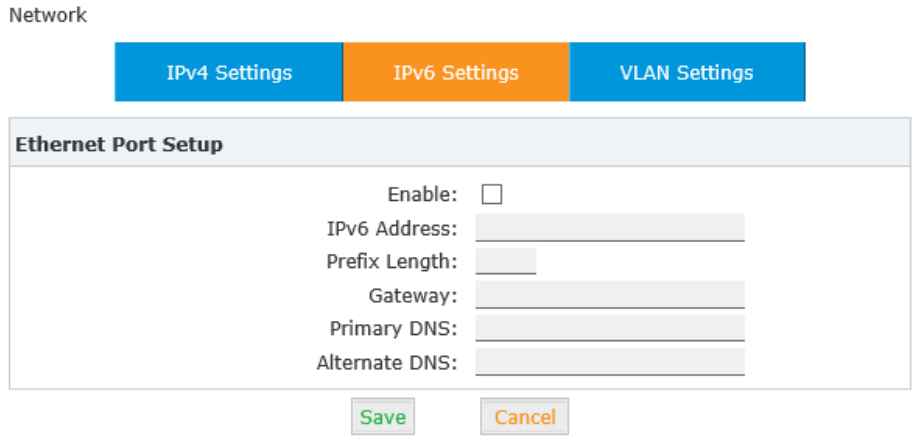
Configure IP of WAN, click【Network Settings】->【Network】->【IPv4 Settings】:



Reference:

Item	Explanation
IP Assign	Static, DHCP, or PPPoE
Virtual Interface	Assign virtual interface for WAN

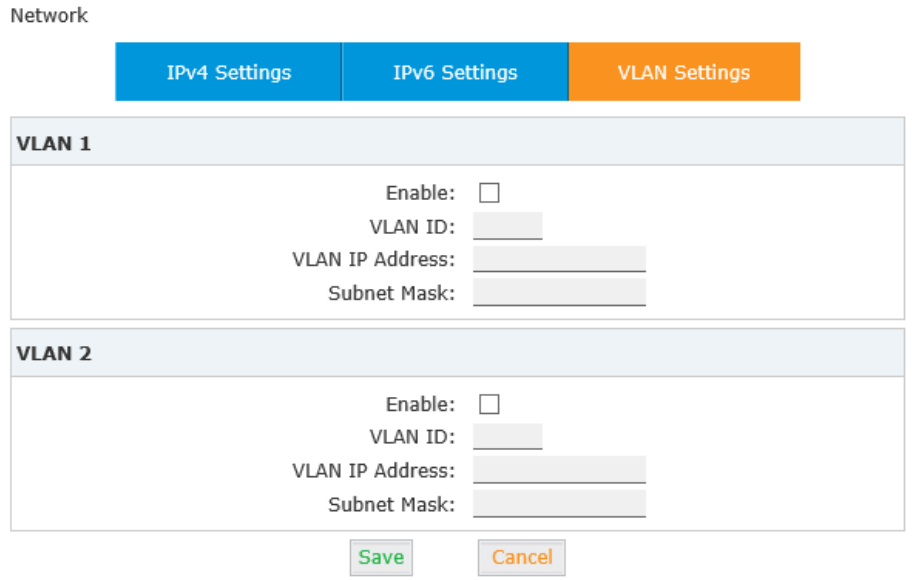
Click【Network Settings】->【Network】->【IPv6 Settings】:



Reference:

Item	Explanation
Enable	Enable IPv6, and assign IPv6 address, gateway or DNS server

Click【Network Settings】->【Network】->【VLAN Settings】:

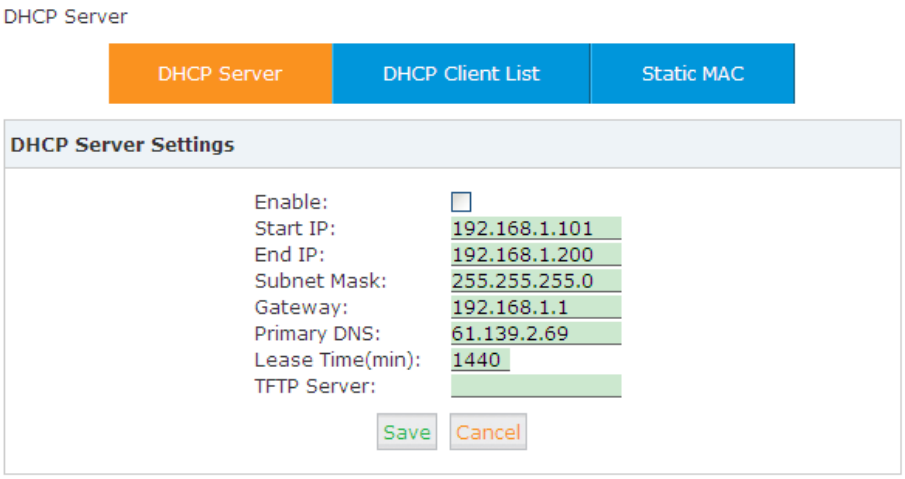


Reference:

Item	Explanation
Enable	Enable VLAN, and assign VLAN address & ID

3.2.2 DHCP Server

Configure DHCP server, click【Network Settings】->【DHCP Server】:



Click【Network Settings】->【DHCP Server】->【DHCP Client List】:

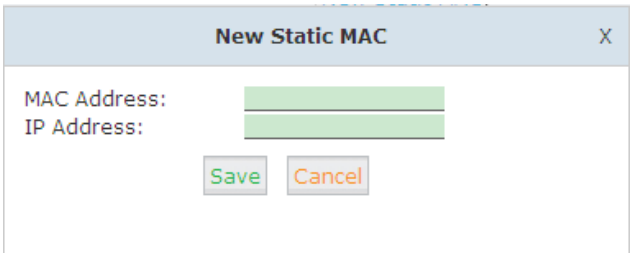
DHCP Client List:

Mac Address	IP Address	Host Name	Expires in
00:22:33:11:23:32	192.168.1.201		expired
68:69:2E:03:02:29	192.168.1.202		expired
68:69:2E:03:02:19	192.168.1.203		expired
68:69:2E:04:03:90	192.168.1.204		expired
68:69:2E:04:03:2E	192.168.1.205		expired
68:69:2E:04:03:F2	192.168.1.206		expired
68:69:2E:04:03:6F	192.168.1.207		expired
68:69:2E:04:03:12	192.168.1.208		expired
68:69:2E:04:03:93	192.168.1.209		expired
68:69:2E:04:03:22	192.168.1.210		expired
68:69:2E:04:03:46	192.168.1.211		expired
68:69:2E:04:03:10	192.168.1.212		expired
68:69:2E:04:03:53	192.168.1.213		expired
68:69:2E:04:03:75	192.168.1.214		expired
68:69:2E:04:03:15	192.168.1.215		expired

This is for displaying DHCP client details.

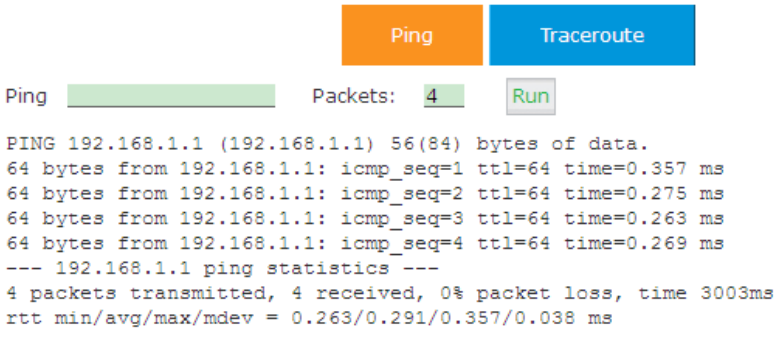
Bind node's MAC with IP when DHCP assigning IPs, to ensure the node is assigned the same IP every time.

Click【Network Settings】->【DHCP Server】->【Static MAC】->【New Static MAC】:



3.2.3 Troubleshooting

Troubleshooting section allows you to confirm the status of the network by performing simple diagnostics including, ping to other network devices or Traceroute command to trace network routings, click【Network Settings】->【Troubleshooting】:

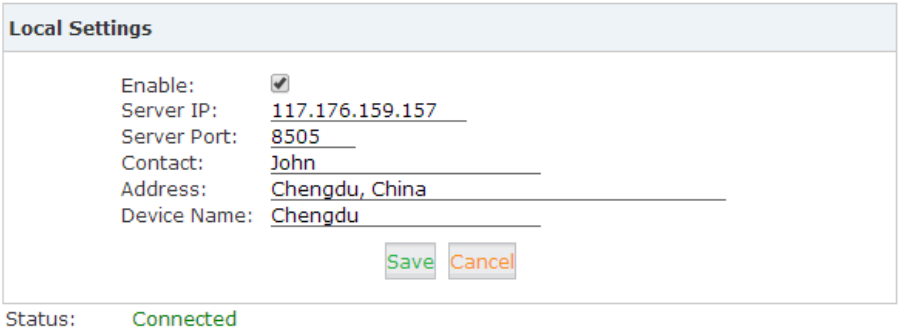

Ping
Traceroute
Ping
Packets: 4
Run
PING 192.168.1.1 (192.168.1.1) 56(84) bytes of data.
64 bytes from 192.168.1.1: icmp_seq=1 ttl=64 time=0.357 ms
64 bytes from 192.168.1.1: icmp_seq=2 ttl=64 time=0.275 ms
64 bytes from 192.168.1.1: icmp_seq=3 ttl=64 time=0.263 ms
64 bytes from 192.168.1.1: icmp_seq=4 ttl=64 time=0.269 ms
--- 192.168.1.1 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3003ms
rtt min/avg/max/mdev = 0.263/0.291/0.357/0.038 ms

3.3 Node Settings

3.3.1 Local Settings

Make the local settings of CTN to connect with CTMC, click【Node Settings】->【Local Settings】:

Local Settings



Please make the sure status is “Connected”. After finishing the local settings, CTN will connect with CTMC successfully. And CTN extensions or operations can be managed by CTMC remotely.

Reference:

Item	Explanation
Enable	Enable CTN
Server IP	CTMC IP Address
Server	Default 8505, CTMC access port
Contact	Contact of device
Address	Address of device
Device Name	Device name

批注 **[lf1]:** Server Port

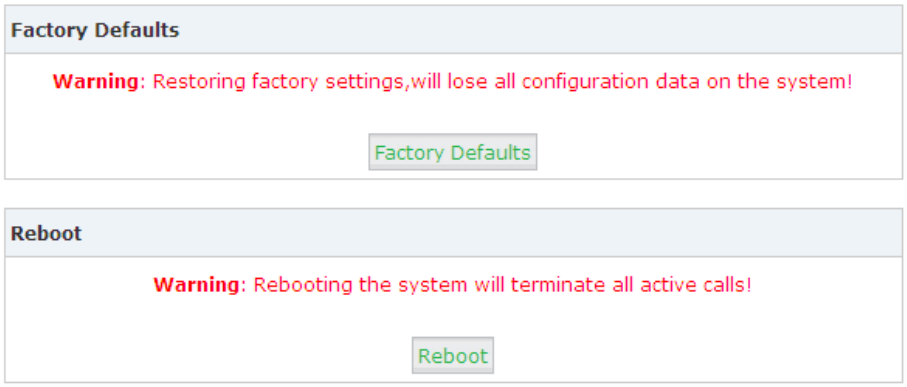
批注 **[lf2]:** Administrator

批注 **[lf3]:** Name of device

3.3.2 Reset & Reboot

Reboot or reset to factory default, click【Cloud Node Settings】->【Reset & Reboot】:

Reset & Reboot


Factory Defaults
Warning: Restoring factory settings,will lose all configuration data on the system!
Factory Defaults
Reboot
Warning: Rebooting the system will terminate all active calls!
Reboot

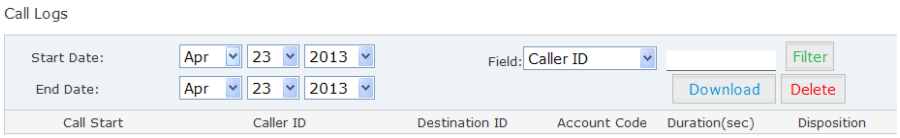
Note: The system will be resumed to factory default once click “Factory defaults”.

批注 **[lf4]:** ; Rebooting the system will terminate all active calls!

3.4 Report

3.4.1 Call Logs

Search call logs of node by caller ID or callee ID, click【Report】->【Call Logs】:



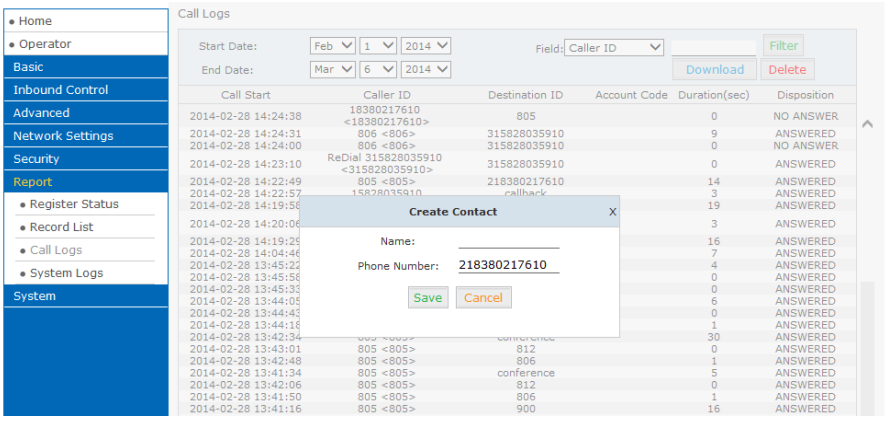
CTMC reserves the right to search the call logs of each node by searching node's name.

Note:

Call duration in call logs is different from the actual billing time.

3.4.2 System Logs

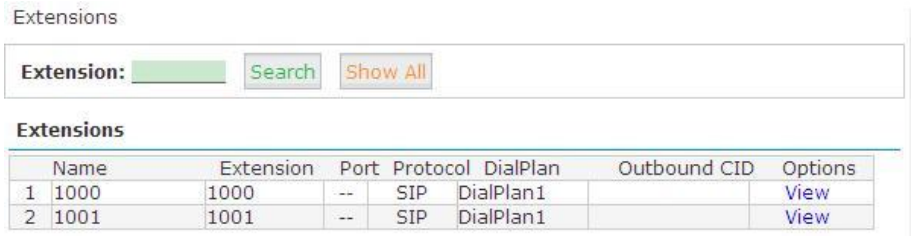
Display system logs, click【Report】->【System Logs】. It's able to download or delete.



3.5 PBX Settings

3.5.1 User Management

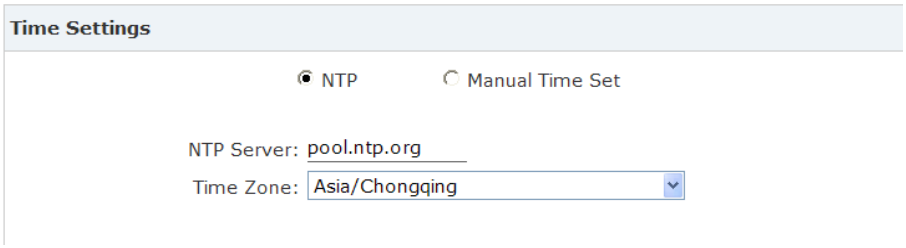
Check extensions of CTN, Click【PBX Settings】->【User Management】:



Note: All the extensions are created or edited from CTMC. The extension numbers will be displayed here only automatically; they are unable to edit or delete actually.

3.5.2 Time Settings

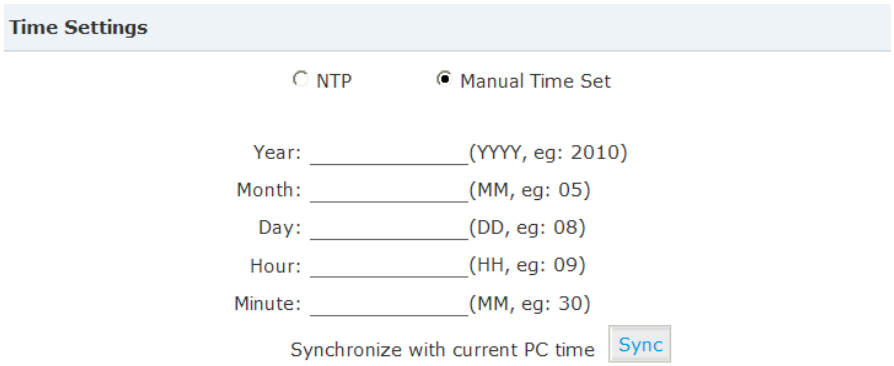
Set the time of system via NTP server or manually.
Select NTP, click【Time Settings】->【NTP】:



Reference:

Item	Explanation
NTP Server	Specify an NTP server, that could be IP or domain, remote or local. Default is pool.ntp.org. Please ensure a valid NTP server
Time Zone	Select a time zone in drop-down list

Select manual, click【Manual Time Set】:

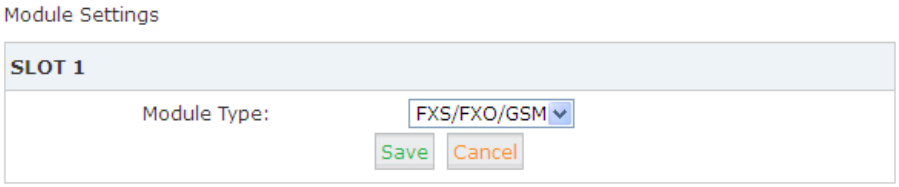


Enter each blank, save and activate, or click 【Sync】to synchronize with your PC.

3.5.3 Module Settings (only on U50/U100)

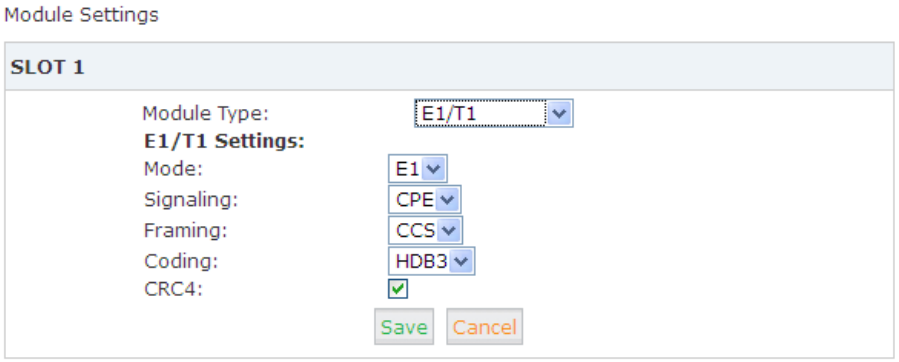
When other modules are in service except for FXO/FXS/GSM, some respective settings need to be made.

Click【PBX Settings】->【Module Settings】:



Module Type: Select the type of module

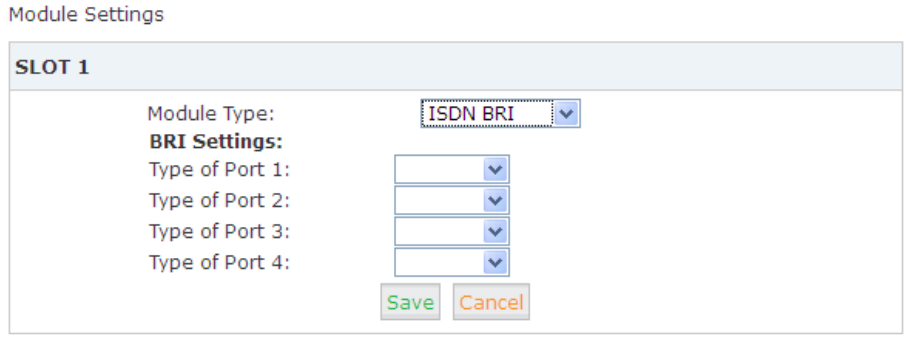
- FXS/FXO/GSM Module: default, no need to set
- E1/T1 Module



Reference:

Item	Explanation
Mode	E1 or T1 mode
Signaling	Signaling of module
Framing	“D4” or “ESF” on T1 mode, “CAS” or “CCS” on E1 mode
Coding	“AMI” or “B8ZS” on T1 mode, “AMI” or “HDB3” on E1 mode
CRC4	Enable CRC4 verification

- ISDN BRI Module



Choose NT or TE mode on each port

<End of Manual>